Igor **Ferst**

TECHNICAL LEADERSHIP · SOFTWARE ENGINEERING · MACHINE LEARNING

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Summary

Experienced technologist with a track record of high-impact roles at growth-stage software companies, building new products with cutting-edge technologies as well as growing and leading a cross-functional product team.

Deep and diverse skill set spanning full-stack development, engineering management, product management, machine learning.

Domain expertise in healthcare, capital markets, and insurance.

Work Experience

Rational Form, Ltd. — *Columbus, OH*
OWNER — *Apr. 2016 - present*

- Owner of technology consulting and custom software development business. In every client engagement, I develop a deep understanding of the business need and leverage the best of modern software tools and practices to fuel my clients' growth.
- Projects include web front-end for a consumer product safety and performance testing tool, back-end API design, and staff augmentation for a high-growth, VC-backed tech company.
- Manage all aspects of client engagements from weekly status reports to billing and operations, and subcontracting.

Root Insurance — *Columbus, OH*
SENIOR SOFTWARE ENGINEER — *Sept. 2018 - present*

- Multiple high-impact projects at a high-growth insuretech startup, including expanding insurance business to new markets, enhancing end-user mobile app, and using machine learning to improve the accuracy of insurance rates.
- Python SME for engineering and data science teams.
- Assist data science team with defining and planning engineering work to support scaling data science across the company.

Aver Inc. — *Columbus, OH*
LEAD SOFTWARE ENGINEER — *Sept. 2014 - Feb. 2018*

- Led the cross-functional team that built Aver's Virtual Payer, a care management and revenue cycle management product for surgical centers. My team took this product from idea to production application with paying customers.
- Owned product design and technical architecture, maintained product roadmap, implemented APIs and features.
- Grew developer team from 4 to 13: overhauled interview process to emphasize rigor and consistency, defined onboarding process and personally onboarded most new developers. Coached two direct reports through promotion to senior engineer.
- Introduced and trained engineering team on new technologies (Docker, Angular), development processes (TDD, code reviews, release process) and agile methodology (user stories, estimation).

InSample Inc. — *San Francisco, CA*
SOFTWARE ENGINEER — *Mar. 2014 - Sept. 2014*

- First employee at healthcare analytics startup building a web-based tool for data exploration and statistical de-biasing of clinical experiments; designed and built the product protoype together with the CTO.
- Prepared fundraising materials and interviewed prospective customers.

Google Inc. — *Mountain View, CA*
SOFTWARE ENGINEER — *Feb. 2013 - Mar. 2014*

- Implemented a novel conversion tracking visualization (patent pending) for the AdWords suite of analytics tools.
- Acted as Angular SME during team's transition from legacy front-end framework to Angular.
- Researched and recommended enhancements to Google Analytics machine-learning algorithm for attribution modeling.

Palantir Technologies Inc. — *Palo Alto, CA*
BUSINESS DEVELOPMENT ANALYST / SOFTWARE ENGINEER — *Jan. 2011 - Jan. 2013*

- Embedded with a prominent global macro hedge fund, the largest customer for Palantir's capital markets analytics platform.
- Conducted user interviews and gathered product requirements to help drive product development based on market needs.
- Product owner for platform's visualization and reporting features.
- Transitioned to engineering team to implement visualization and reporting feature roadmap.

Technology

Languages/Frameworks	Python, Ruby/Rails, Java, Javascript/Node.JS/Angular/React
Infrastructure	AWS, Docker, Ansible, SQL
Machine Learning	Random forests, vector-based NLP, Markov chains

Patents

2015   **Radial display generation and interactive system,** Google Inc. (pending)

2018   **Systems and methods for providing episode-based medical care,** Aver Inc. (pending)

Education

Cornell University   *Ithaca, NY*

M.S. IN COMPUTER SCIENCE

- PhD candidate in Applied Mathematics supported by a National Science Foundation Graduate Research Fellowship.
- Published original research on probabilistic optimization algorithms: `https://tinyurl.com/ycheu4us`

University of Waterloo   *Waterloo, Ontario*

M.MATH. IN COMBINATORICS & OPTIMIZATION

University of Chicago   *Chicago, IL*

B.S. IN MATHEMATICS WITH HONORS

Volunteering

Tech Elevator   *Columbus, OH*

- Panelist and student mentor for local software developer bootcamp.

United Schools Network   *Columbus, OH*

- Designed and taught a three month after-school programming course at a local charter middle-school.
- Developed spreadsheet-based operational tools for school administrators.

Columbus Arts Festival   *Columbus, OH*

- Member of organizing committee for 2016 and 2017 festivals.
- Created an interactive on-line map for 2016 festival: `https://github.com/igorferst/columbus-arts-festival-map`
- Interviewed vendors for mobile app development.